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ABSTRACT

A block coding algorithm uses an original block group having n+1 original blocks of m-bit message, which a first original block of m-bit message is encoded as a reference block of n-bit codeword and n original blocks of message placed after the first original block of m-bit message are encoded as n weighted blocks of n-bit codeword, based on a bit sequence of the reference block. A block decoding algorithm decodes n weighted blocks to generate corresponding original blocks of m-bit message and reconstructs the first original block of m-bit message from a sequence of reference bits, wherein each reference bit implies whether each of n weighted blocks is an A type weighted block or a B type weighted block.

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